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•	CENTRAL INTELLIGENCE AGENCY	REPORT NO.	
•	INFORMATION REPORT	CD NO.	 25X1A
COUNTR	Y Germany (Western Zones)	DATE DISTR. /6	JAN '52
SUBJEC ⁻	Convention of the Bavarian Physical Society	NO. OF PAGES	2
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	The information in this report was obtained by the	ne Scientific Resear	ch Division,
	Military Security Board, (Germany), Department of CIA in accordance with paragraphs 2h and 3d of Nat	State, and is disseminated in Security Council	inated by
•	gence Directive #7_J		
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1.	The Society for Physical Science in Bavaria (Physi	kalische Gesellschat	t in
	Bayern) held its first big convention on June 23 and 24, 1951, in Erlangen. As Prof. G. Hettner, this opening address, membership had just reached to	he president, pointe	ed out in
	relatively few guests from foreign countries, the as attending the convention, would seem to indicate portion of the membership had gathered in Erlangen reports of interesting and successful activities, we should be activities.	that an unusually h	nigh pro-
	convention. There is indication that everyone cam Erlangen with a feeling of satisfaction over the h	priateness and value e away from hospitab armonious and well-r	of this le
	progress of the convention, due in large measure to functioning as "organization director", and to his	o Prof. H. Volz of E	rlangen,
2.	The Society's membership suffered loss through the on February 20, 1951, and of Arnold Sommerfeld on Apraddress, the president honored the memory of these of lectures was devoted to paying tribute to the 1 the field of theoretical physics.	death of Ernst von ril 26th, In his departed. The firs	opening t group
3.	No attempt was made to present lectures of a general 31 short talks were given in the course of six sessible available time it was a said letters.	sions, and by skillf	alla allotina
	the available time, it was possible to have these to discussion. The University of Munich led with tw Erlangen with seven, Wuerzburg with four, and one I of Science. Four lectures were given by persons in one each-were contributed by Heidelberg, Karlsruhe	ilks followed by some relve talks, followed ecture by the Bavar the industry. Cue	e profitable d by
4.	In scanning the papers presented for those which st interest, the following may be mentioned particular	ruck a response of	nore general
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- a) Prof. Joos' research institute in Munich has begun a systematic study of processes in photographic layers, taking as a guide Guerney's and Mott's new and accepted theory of the latent image.
- b) H. Ellenberger of Munich gave a report of further developments of the bifilar gravimeter as designed by Tomaschek and Schaffernicht, which achieves compensation for gravity by means of a second bifilar system. Of note is the sharp reduction in height of this type of "dual bifilar gravimeters," from 150 cm to 12 cm, without reducing efficiency.
- c) The account of new experiments in connection with the Takata effect by H. A. Bomke of Munich was followed by a lively discussic Doubts, voiced both by chemists and physicists, somewhat damper the optimistic belief that a new proof had been found. The further remains of this intrinsically worthwhile project will be keenly awaited.
- d) Great interest was shown in the measurements of supraconduction by the Munich group under Prof. Meissner, and the Erlangen group under Prof. Hilsch. The Munich people prefer to work with massive test units of a high degree of purity, whereas Erlangen is conducting tests with vapor-sprayed coatings produced at extremely low temperatures with the addition of small quantities of specific "transition metals". Hilsch first gave a demonstration of the testing method, remarking at the outset-being the cautious demonstrator of the Pohl school that he is--that he could not be certain whether the experiment would succeed absolutely. When it did turn out successfully, his listeners were not surprised, and there was generous applause.
- e) The Siemens Company plant in Erlangen demonstrated two new ultransonic devices. One is used in non-destructive materials testing. The other is used for soldering on aluminum, and had been exhibited for the first time at the Hanover fair this year. By having ultrasonic rays destroy the layer of oxide on a particular piece of aluminum, it is possible to apply a coating of tin, and thus also to solder. This process will be of great value in laboratory technique.

(Available on loan from CIA Library is a copy of Physikalische Verhandlungen 1951, No. 5, Physik Verlag, Mosbach-Baden which contains summaries of the talks by their respective authors.)

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